

**Background Document F:**

**Development and Review Process of Interim  
Army Chronic Toxicological Criteria —  
General Chronology and Points of Contact**

**Utah Chemical Agent Rule (UCAR)**

**May 1999**

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## Background Document F:

### Development and Review Process of Interim Army Chronic Toxicological Criteria — General Chronology and Points of Contact

#### 1992

- Oak Ridge National Laboratory's (ORNL's) *Estimated General Population Control Limits* document (ORNL TM12035) published; submitted to Army, which transmitted it to Centers for Disease Control (CDC) for review (Point of Contact: Dr. Bob Ross/Dr. Annetta Watson — 923-574-7797/423-576-2125 ORNL)

#### 1993

- New draft document requested by Army Environmental Center (AEC); review of initial draft by:
  - Dr. Thomas Bucci, Pathology Associates, International, 501-543-7027
  - Dr. I.K. Ho, University of Mississippi Medical Ctr., 601-984-1600
- CDC comments (December): "Concur with methodology but suggest alternative exposure assumptions rather than standard default which (CDC) considers unrealistic..." (Points of Contact: Dr. Harvey Rogers, Dr. Steven Thack, CDC-NCEH, 404-488-7070)
- Army Office of the Surgeon General approves methods; reserves right to review as issue evolves; points out that control limits are reaching detection limits. (Point of Contact: LTC Holly Doyle, 703-756-0133)

#### 1994

- Draft ORNL document (*Estimated Control Limits and Technologies for Use in Remediating Sites Contaminated with NonStockpile Chemical Materiel*) containing modified procedures and numbers (compared with 1992 document) submitted to Army in December for review. (Contract Point of Contact: Mr. Joe King, Army Environmental Center — 410-671-1535) (ORNL Principal Investigators: Dr. Bob Ross/Dr. Annetta Watson — 923-574-7797/423-576-2125)

## 1995

- ORNL outbriefs to the Army (AEC and USACHPPM)

## 1995-1996

- Review by non-Department of Defense experts:
  - Dr. Michael Douerson, former EPA Health Risk Assessment Methodology developer; Phone: 513-542-7475 (present affiliation: Toxicologic Excellence for Risk Assessment [TERA])
  - Dr. William Hartley, former Army researcher, former EPA RA scientist; 504-588-5374
- Review of numbers by Army (USACHPPM, AEC, ERDEC) (Point of Contact: Steve Kistner — Scientific Advisor [USACHPPM] 410-671-2307)
- Modifications made; criteria "numbers" taken out of AEC report and written up as individual agent health risk assessment documents

## 1996

- Submitted (April) to Strategic Environmental Research and Development Program (SERDP) (includes representation from EPA, DOE, DOD) (Point of Contact: Dr. Jim Cogliano, EPA and Chair, SERDP, 202-260-2575)
- Approval (August) by U.S. Army Office of the Surgeon General (see letter signed by Dr. Francis O'Donnell, dated 19 August 1996). Cited as interim pending the National Research Council's (NRC's) Commission on Life Sciences — Board on Environmental Studies and Toxicology — Committee on Toxicology (COT) review and approval.
- Final review by SERDP (September). All numbers remain as in Office of the Surgeon General's letter except for lewisite (recommendation was just to use arsenic criteria instead). ORNL is putting together a White Paper discussing all the issues of concern. SERDP also recommends final review by COT.

- Final package submitted to COT; includes support documents for each chemical agent as well as White Paper. (Point of Contact: Dr. Kulbir Bakshi — COT panel chair. 202-334-2613)
- Review (November) by CDC/NCEH. Endorses use of interim numbers followed by reevaluation of NRC/COT review panel; upon COT review the CDC will submit criteria through the Federal Register for public comment. (Point of Contact: Ms. Linda Anderson/Mr. Paul Joe, 770-488-7071)

#### **1997**

- COT convened for initial presentation of RFD documents (February)

#### **1998**

- ORNL and AEC publish RfDs in peer-reviewed journal: Opresko, et al., "Chemical Warfare Agents: Estimating Oral Reference Doses," *Review of Environmental Contamination and Toxicology* 156:(1-183)
- Ongoing COT review

#### **1999**

- Final COT report is anticipated in April/May

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